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DATE MAILED: 10/03/2006

APPLICATION NO.		FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/692,824	10/19/2000		Jose Murilo Mourao	MITA 17.869	6759
26304 .	7590	10/03/2006		EXAMINER	
		N ROSENMAN LLI	KASTLER, SCOTT R		
575 MADISON AVENUE NEW YORK, NY 10022-2585				ART UNIT	PAPER NUMBER
				1742	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)	
		09/692,824	2,824 MOURAO ET AL.	
	Office Action Summary	Examiner	Art Unit	-
		Scott Kastler	1742	
Period fo	- The MAILING DATE of this communication ap r Reply	pears on the cover sheet w	rith the correspondence ad	ldress
WHIC - Exten after S - If NO - Failur Any re	DRTENED STATUTORY PERIOD FOR REPL HEVER IS LONGER, FROM THE MAILING D sions of time may be available under the provisions of 37 CFR 1. SIX (6) MONTHS from the mailing date of this communication. period for reply is specified above, the maximum statutory period e to reply within the set or extended period for reply will, by statute apply received by the Office later than three months after the mailing d patent term adjustment. See 37 CFR 1.704(b).	NATE OF THIS COMMUNI 136(a). In no event, however, may a will apply and will expire SIX (6) MO e, cause the application to become A	CATION. reply be timely filed NTHS from the mailing date of this of BANDONED (35 U.S.C. § 133).	,
Status				
2a)⊠ 3)□	Responsive to communication(s) filed on <u>07 J</u> This action is FINAL . 2b) This Since this application is in condition for allowa	s action is non-final. ince except for formal mat	· · · · · · · · · · · · · · · · · · ·	e merits is
Dispositio	on of Claims			
5)⊠ 6)⊠ 7)□ 8)□ Applicatio	Claim(s) <u>17-43</u> is/are pending in the application and Of the above claim(s) is/are withdray Claim(s) <u>34-43</u> is/are allowed. Claim(s) <u>17-32</u> is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or papers	wn from consideration. or election requirement.		•
10) 🗌 🗆	The specification is objected to by the Examine The drawing(s) filed on is/are: a) acc Applicant may not request that any objection to the Replacement drawing sheet(s) including the correc The oath or declaration is objected to by the Ex	cepted or b) objected to drawing(s) be held in abeya tion is required if the drawing	nce. See 37 CFR 1.85(a). g(s) is objected to. See 37 CF	
Priority u	nder 35 U.S.C. § 119			
12) <u></u>	Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Burea ee the attached detailed Office action for a list	ts have been received. ts have been received in A prity documents have beer u (PCT Rule 17.2(a)).	Application No n received in this National	Stage
2)	(s) of References Cited (PTO-892) of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO/SB/08) No(s)/Mail Date	Paper No	Summary (PTO-413) (s)/Mail Date Informal Patent Application 	

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Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 17-32 are rejected under 35 U.S.C. 103(a) as being unpatentable over Nachtman et al. Nachtman et al teaches a composite particle and method of making, where the particle comprises a core (11) which may be of fine iron ore (see col. 3 lines 28-37) and a sealing layer (12) which may be formed of a mixture of clay materials and pozzolanic materials (see claim 2) for example) where the clay material may be bentonite clay (see col. 4 lines 10-15 for example) and the pozzolanic material may be Portland cement (see col. 4 lines 34-36 for example), where the disclosure of Nachtman et al includes particle sizes and composition ranges broadly encompassing those instantly claimed, and where the composite particles are formed by contacting the core materials with an aqueous mixture of the sealing layer materials, thereby showing all aspects of the above claims except specifically reciting that the core be iron ore and the coating (sealing) layer be bentonite and Portland cement, since the intended use of the product produced from the recited method cannot be relied upon to further limit claims to the process of production of the product itself; although as stated above these materials are specifically stated as useful materials for the respective portions of the disclosed composite particles. It has been well settled that where the applied prior art teaches a range of compositions or properties overlapping a claimed range, motivation to select a particular range or value within the range disclosed by the applied prior art would have been a modification obvious to one of

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ordinary skill in the art at the time the invention was made. See MPEP 2144.05. In the instant case, since Nachtman et al specifically teaches that iron ore is useful for the core of it's claimed composite particle and a mixture of clay materials, including bentonite clay, and pozzolanic materials, including Portland cement are useful as the sealing layer of the composite particle, motivation to employ these components as the core and sealing layer materials of Nachtman et al, would have been a modification obvious to one of ordinary skill in the art at the time the invention was made.

Allowable Subject Matter

Claims 34-43 are allowed at least because none of the cited or applied prior art shows or fairly suggests a method of operating a direct reduction furnace with the recited coated material.

The closest cited prior art, Nachtman et al, is directed to the non-analogous method of employing a coated particle as part of a barrier forming layer.

Response to Arguments

Applicant's arguments filed on 6/7/2006 have been fully considered but they are not persuasive. Applicant's argument that since the claims as presently amended now recite a process for production of ferrous materials for use in a direct reduction furnace the method of producing the materials disclosed by Nachtman cannot be relied upon is not persuasive because the intended use of a product cannot be relied upon to fairly further limit claims to the method of making the product itself.

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Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Scott Kastler whose telephone number is (571) 272-1243. The examiner can normally be reached on Monday through Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Roy King can be reached on (571) 272-1244. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217,9197 (toll-free).

Scott Kastler Primary Examiner Art Unit 1742

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